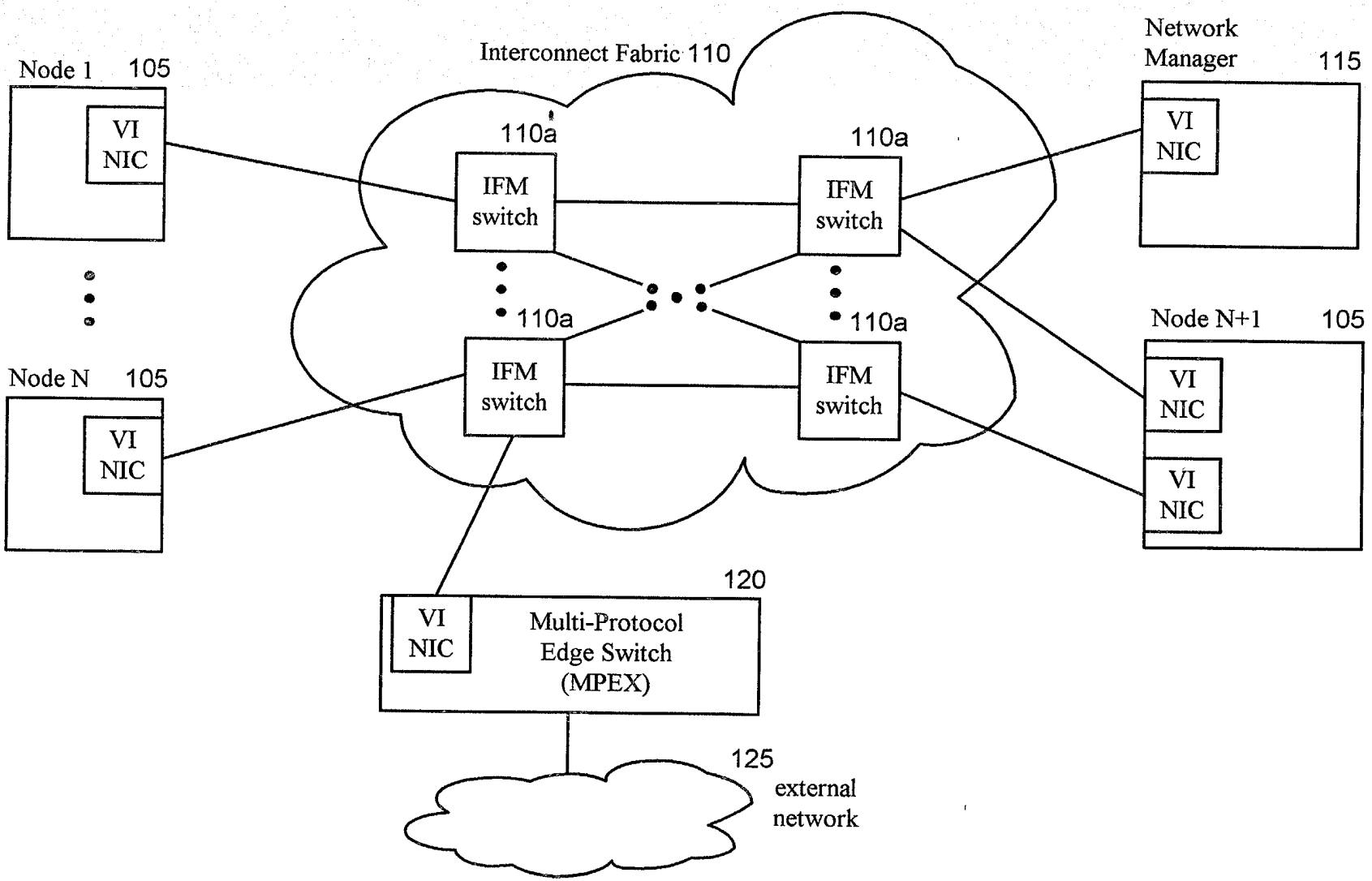
Node 1
105
VI
NIC
Node N
105
VI
NIC
Interconnect Fabric 110
110a
IFM
switch
110a
IFM
switch
110a
IFM
switch
110a
IFM
switch
Network
Manager
115
VI
NIC
Node N+1
105
VI
NIC
VI
NIC
120
VI
NIC
Multi-Protocol
Edge Switch
(MPEX)
125
external
network

Fig. 1

Example Incoming Ethernet Frame With TCP/IP Packet Payload Containing An HTTP Request Message

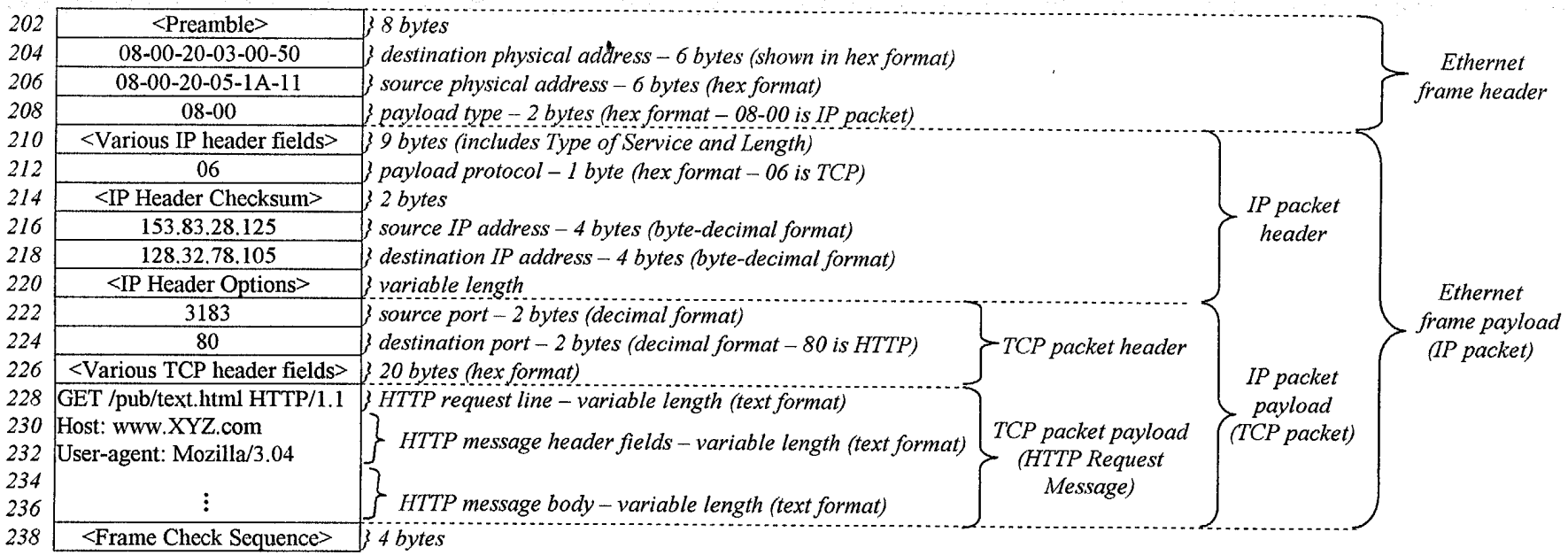

Figure 2A

Example Outgoing Fibre Channel Frame With TCP/IP Packet Payload Containing An HTTP Request Message

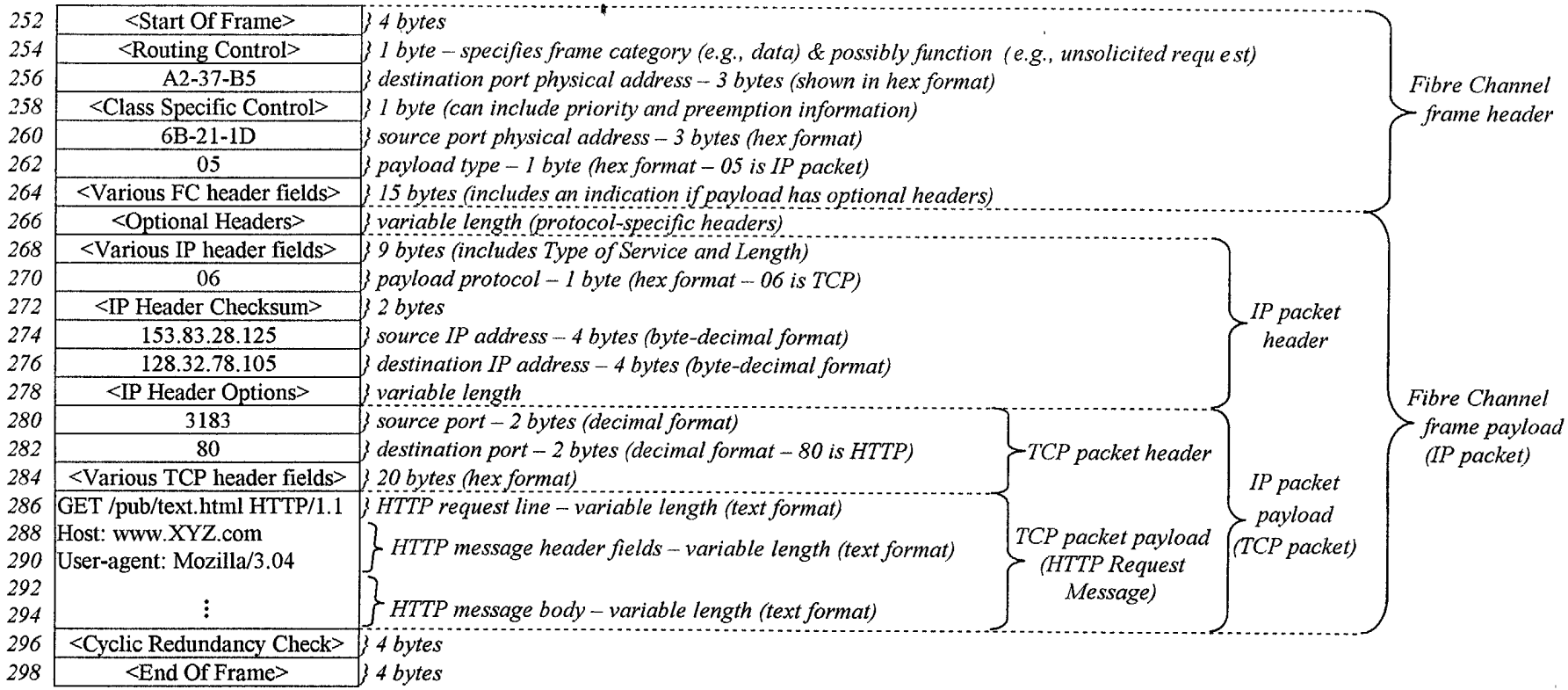

Figure 2B

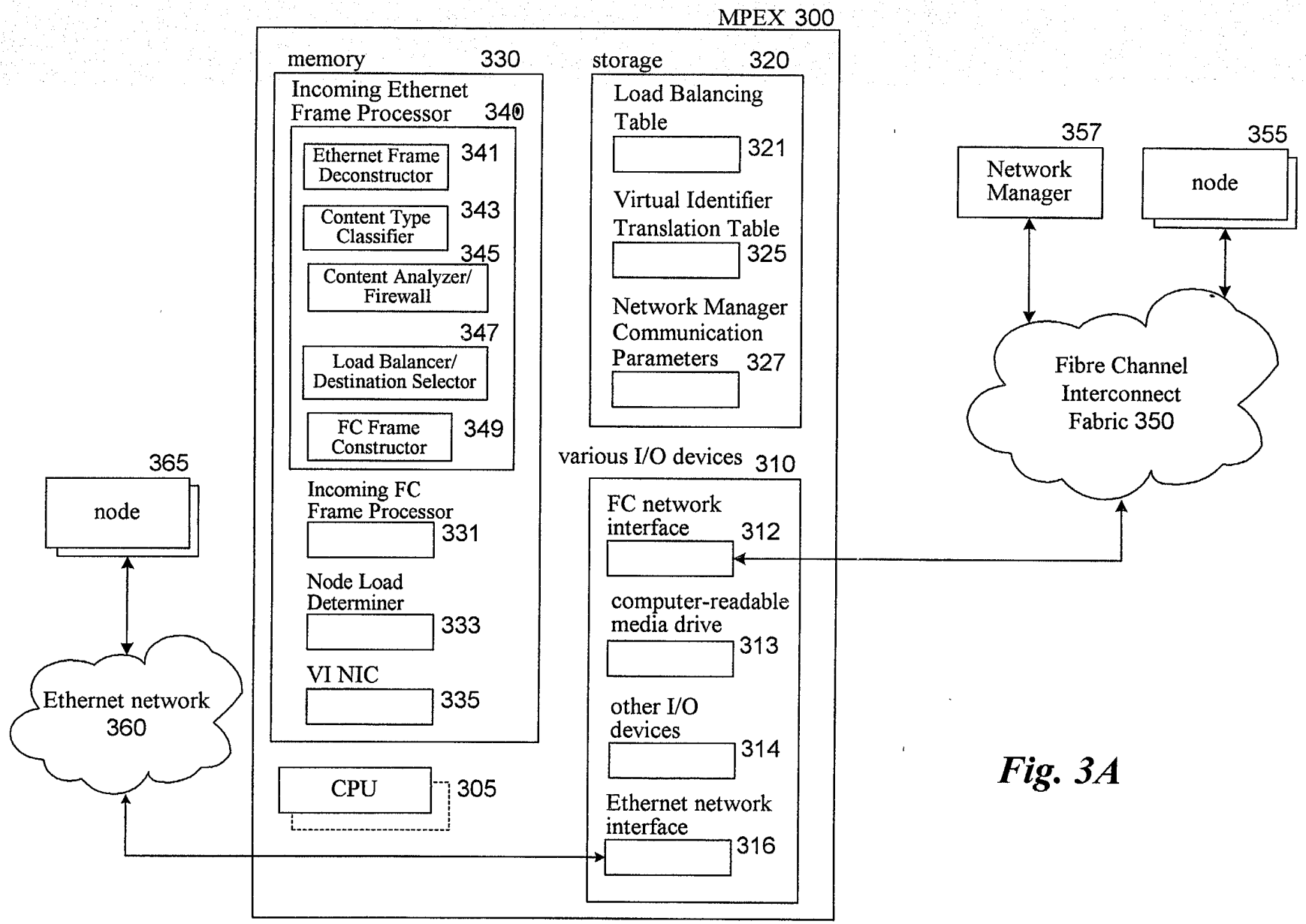

Fig. 3A

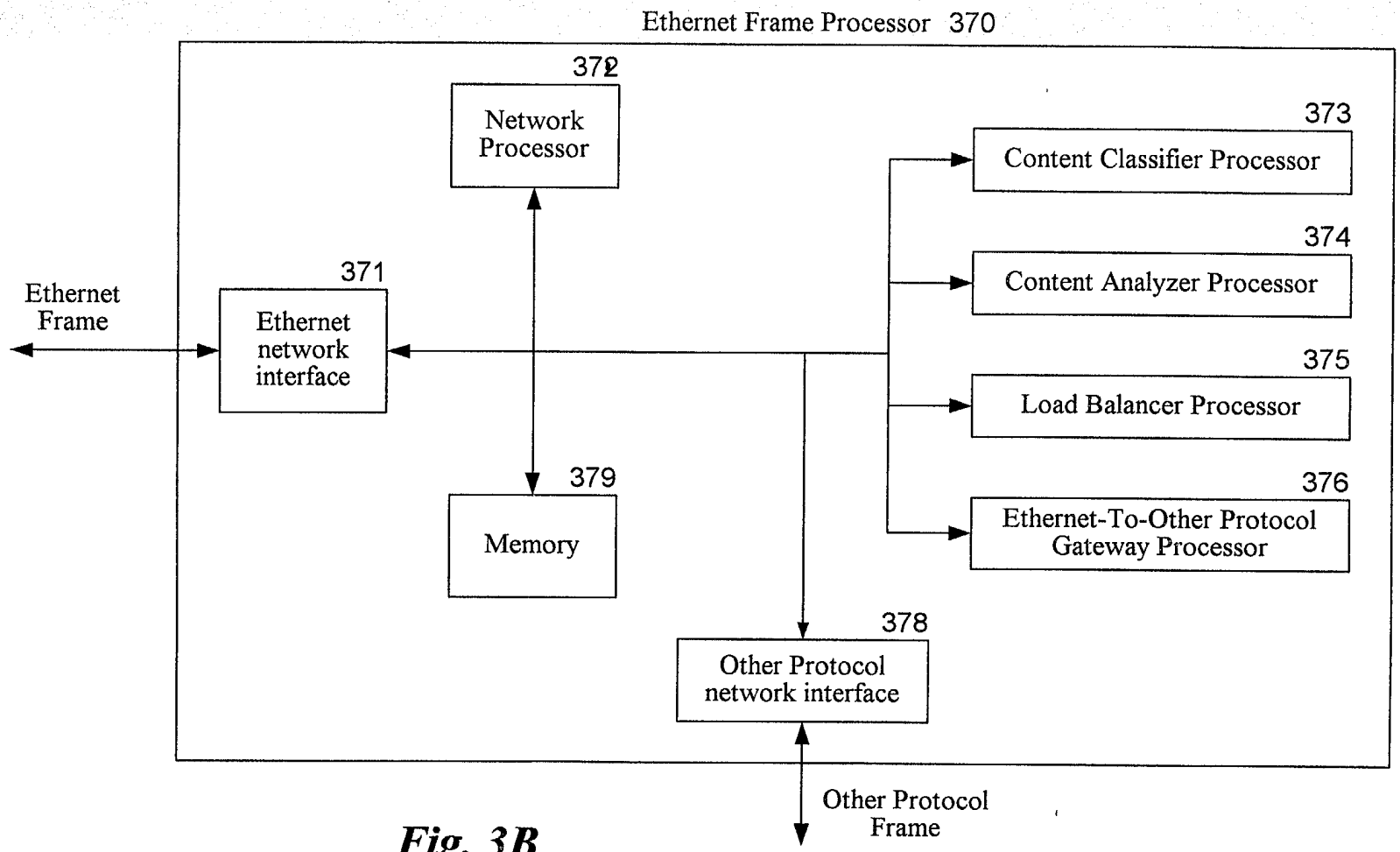

Fig. 3B

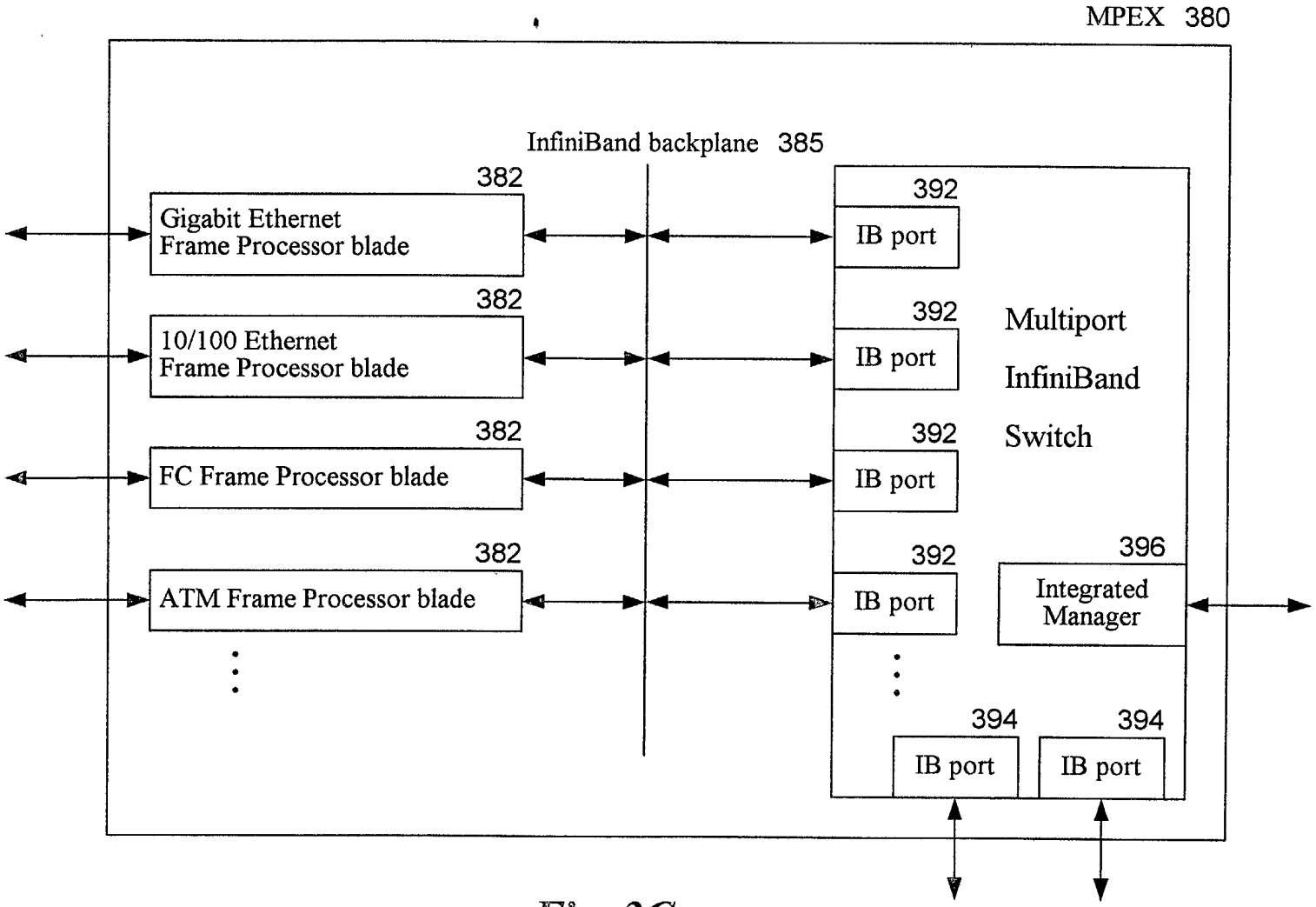
MPEX 380
InfiniBand backplane 385
382
Gigabit Ethernet
Frame Processor blade
382
10/100 Ethernet
Frame Processor blade
382
FC Frame Processor blade
382
ATM Frame Processor blade
392
IB port
392
IB port
392
IB port
392
IB port
Multiport
InfiniBand
Switch
396
Integrated
Manager
394
IB port
394
IB port

Fig. 3C

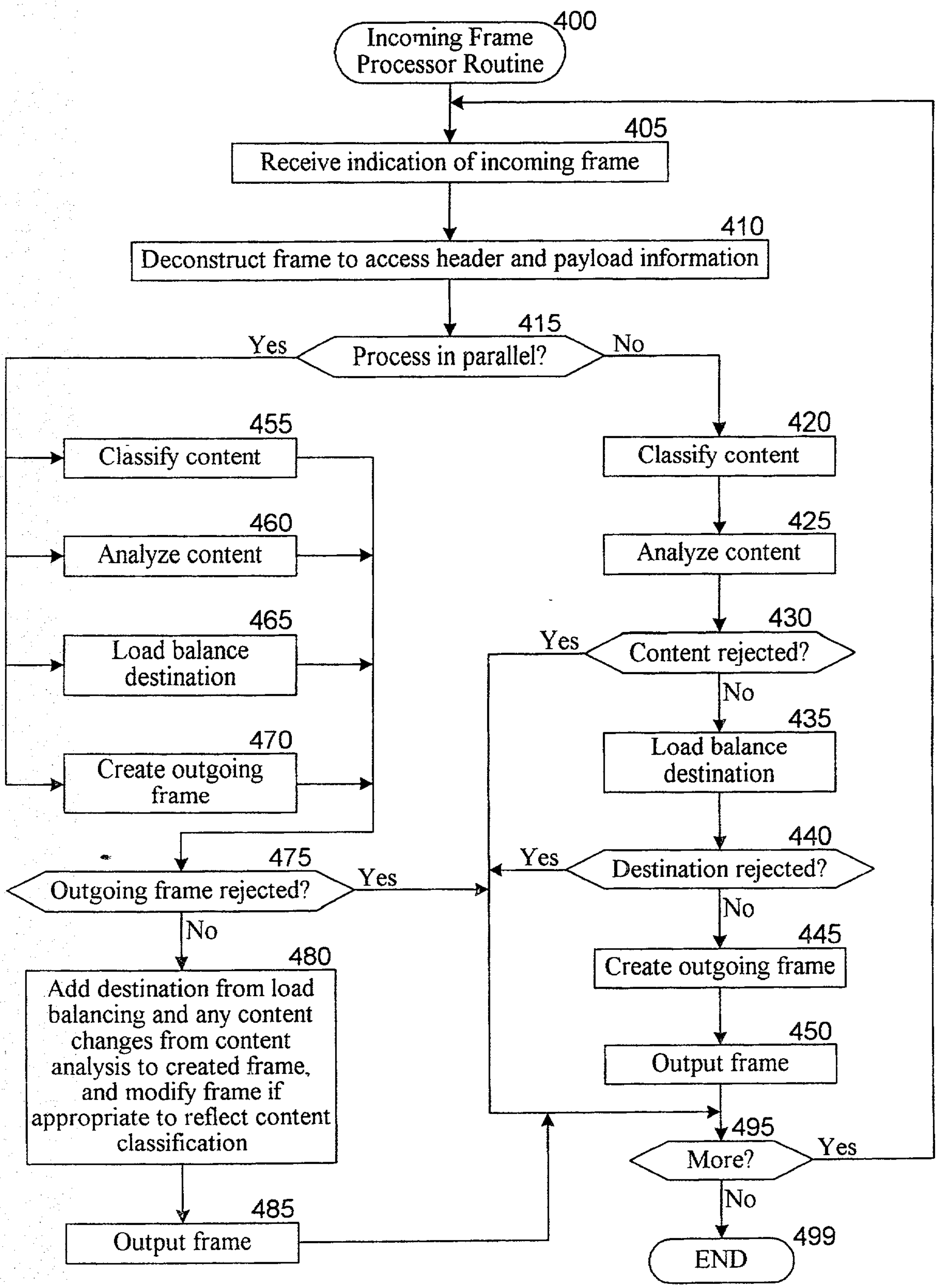
Incoming Frame Processor Routine
400
Receive indication of incoming frame
405
Deconstruct frame to access header and payload information
410
Process in parallel?
415
Yes
No
Classify content
455
Analyze content
460
Load balance destination
465
Create outgoing frame
470
Outgoing frame rejected?
475
Yes
No
Add destination from load balancing and any content changes from content analysis to created frame, and modify frame if appropriate to reflect content classification
480
Output frame
485
Classify content
420
Analyze content
425
Content rejected?
430
Yes
No
Load balance destination
435
Destination rejected?
440
Yes
No
Create outgoing frame
445
Output frame
450
More?
495
Yes
No
END
499

Fig. 4